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A PORTFOLIO OF DETAIL PLATES AND GENERAL INFORMATION



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INDIANA LIMESTONE INSTITUTE



FOREWORD

In the issuance of this group of detail plates and other pertinent information, we are hopeful that they may be found to be of some useful value to the architectural and engineering professions. The sponsors would also like to have the members of these professions feel entirely free to contact our organization when specific information is needed relating to problems concerning the use of our product and to understand, of course, that this service is entirely gratuitous.



IN APPRECIATION

WE ACKNOWLEDGE A PROFOUND DEBT OF GRATITUDE TO THE THOUSANDS OF ARCHITECTS AND ENGINEERS THROUGHOUT THE UNITED STATES AND CANADA WHO HAVE YEAR AFTER YEAR AND FOR MANY YEARS EXPRESSED THEIR FAITH IN "THE NATION'S BUILDING STONE" BY REPEATEDLY SPECIFYING ITS USE.

INDIANA LIMESTONE INSTITUTE



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FAGAN STONE COMPANY
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THE CARL FURST COMPANY

HELTONVILLE LIMESTONE COMPANY

INGALLS STONE COMPANY

At Ellettsville, Indiana

HARDING & COGSWELL

McNEELY STONE COMPANY



WHEN COST IS A SERIOUS MATTER

Today's cost of construction is so high that any price advantage . . . without sacrifice of appearance, durability or structural value . . . must, of course, appeal immediately to every architect.

It is for this reason that we believe a closer study of the more practical uses of Indiana Oolitic Limestone will result in greater economy.

It is suggested, therefore, that the "Select" type be specified for those portions of any structure coming within the reach of normal vision, such as interiors, window and door trim, carvings, inscriptions and wall surfaces in the lower stories. Above the lower stories, it is suggested that the "Standard" type be specified and the "Rustic" type for extreme heights, for wall copings generally and for isolated sills, lintels and band courses.

Generally speaking . . . and avoiding any reference to technical language . . . the three classifications differ in only one respect: the "Select" stone possesses a finer grain and less noticeable natural markings than the

"Standard" and "Rustic". The more expensive "Select" stone possesses no more structural strength, no more durability and no more resistance to the elements than do the "Standard" and the "Rustic".

When specifications call for "Select" throughout (often even to the inclusion of parapets
and roof copings), a great deal of extra quarrying and handling by the quarryman and
cut stone contractor is required . . . for the procurable quantity of "Select" stone is relatively
small, and the necessary extra quarrying and
extra handling involves greater cost. This is
equally true with either the Buff or Gray varieties.

It requires but brief reflection to realize that acceptance of these statements and suggestions will in no way operate to the impairment of the beauty, structural strength or durability of any Indiana Limestone building, but will contribute to the attainment of a highly satisfactory completed product at lower cost.

Our technical counsel and bid-procurement services are yours for the asking.



LET'S WORK TOGETHER TO MAKE THE JOB BETTER

The cooperation of the general contractor and/or the stone setter is very definitely needed and desired, toward the end that trouble, delay and expense may be reduced to a minimum and, by this process, greater satisfaction rendered the architect and owner.

The following suggestions, then, are offered in the hope that they will be accepted in the spirit which prompts their issuance, which is to obtain as nearly as possible the objective outlined in the preceding paragraph.



IN THE INTEREST OF A BETTER JOB

All too frequently, nowadays, it is difficult to secure sufficient, or any laborers who are really experienced in the proper handling of cut Indiana Limestone out of cars and trucks, in storing and distributing it through and around buildings under construction. Some laborers have the idea that, because the material is stone, it can be handled roughly without damage. Of course, nothing could be farther from the truth.

The arrises (or edges) should be carefully guarded against snipping and breakage by avoiding the use of pinch bars in moving pieces of cut stone and by setting them down without force or jarring. If pinch bars are used, place an old rubber tire or tube between the bar and the stone.

Where the use of rollers is necessary, care should be used that these rollers be of wood.

Sliding stone down truck skids should always be done by using the back of the stone in contact with the skids—never the face or top or bottom beds. Additional protection may be had by using as a bed or cushion, the excelsior usually found in the car or truck.

Never set the stone down against the earth. This avoids staining from moisture and mud. Always set the stone on wooden skids which are first covered with a waterproof paper. This will help to prevent the appearance of white skid marks, resulting from the skids having drawn any moisture from the stone at points of contact. This is especially advisable where cut stone must be unloaded and stored for a long period before setting. Avoid chestnut, walnut, oak, certain firs, and other woods containing tannin.

All stone stored at the site or elsewhere should be kept carefully covered with waterproof paper to keep it as clean as possible before setting.

Don't set dirty stone or neglect the washing of stone before setting.

Don't use salt to thaw ice on the face of cut stone or to thaw ice in anchor or lewis holes.

Don't permit wash from concrete floor construction or scaffolding to run down onto walls during construction.



Don't permit oils or grease, or compounds containing them, to come in contact with the stone. This also applies to new ropes, which usually contain tar.

Don't set stone in mortar containing ordinary Portland Cement. Use a recognized non-staining cement. This is also recommended for use in mortar for backing-up material.

Don't set stone against concrete work without first having painted the face of the concrete with a heavy coat of approved asphaltic waterproofing compound.

Don't use sand of questionable quality in setting and pointing mortars. Be sure that the water used is clean and free of impurities.

Don't allow smoke from hoisting engines or salamanders to mar the face of cut stone.

Be sure that all projecting courses, sills, entrance cheek blocks, entrance doorways and all stonework exposed to traffic contact of other trades, are properly and carefully protected with wood.

And, above all, don't leave unfinished walls uncovered at night or during heavy rains AT ANY TIME. This will prevent staining of the stone and the later appearance of white efflorescence on brick work as well as on the stone. Failure to follow this advice has been the cause of much trouble, dissatisfaction and expense.

When stone has arrived in a broken or damaged condition, the attention of the carrier's agent should be called to the condition and a notation as to the damage be acknowledged by him. This is necessary because the shipper holds a receipt from the carrier showing that the shipment was in good order when received by the carrier. Claims for such damage MUST be based upon the possession of freight bills bearing the notation of the damage.

Boiled down, all the above simply means cooperation and ordinary care.

Result—greater satisfaction and a better looking job.



HEIGHTS OF BRICK COURSES

ses										4	BR	ICK	s +	4 .	OIN	TS E	QU	AL										S
Courses		10'			101/			101/			103/	4"		11	"		111/	4"		117	'2"		113/	4"		12'	,	Courses
	Ft.	in.	16ths	Ft.		16ths	Ft.		16ths	Ft.		16ths	Ft.		16ths	Ft.		16ths	Ft.		16th	Ft.	In.	16ths	Ft.	In.	16ths	
1 2 3 4 5	1	5 7 10 0	8 0 8 0 8	1	5 7 10 0	2 11 4	1	2 5 7 10 1	14	1	5 8 10 1	6	1	2 5 8 11 1		1	2 5 8 11 2	10 7 4	1	2 5 8 11 2	12 10 8	1	5 8 11 2	14 13 12	1 1	3 6 9 0 3	0 0 0	1 2 3 4 5
6 7 8 9	1 1 1 2	3 5 8 10	0 8 0 8	1 1 1 1 2		6 15 8 1 10	1 1 1 2		6 0 10	1 1 1 2 2		2 13 8 3 14	1 1 1 2 2	7 10 0	8 4 0 12 8	1 1 2 2		11 8 5	1 1 2 2		2 0 14	1 1 1 2 2	5 8 11 2 5	9 8 7	1 1 2 2 2	6 9 0 3 6	0 0 0 0	6 7 8 9
11 12 13 14 15	2 2 2 2 3	3 6 8 11 1	8 0 8 0 8	2 2 2 2 3	9	3 12 5 14 7	2 2 2 3 3	7 10	14 8 2 12 6	2 2 2 3 3	5 8 10 1 4	9 4 15 10 5	2 2 2 3 3	9 11 2	4 0 12 8 4	2 2 3 3 3 3	6 9 0 3 6	12	2 2 3 3 3 3		10 8 6 4 2	2 2 3 3 3 3	8 11 2 5 8		2 3 3 3 3	9 0 3 6 9	0 0 0 0	11 12 13 14
16 17 18 19 20	3 3 3 4	4 6 9 11 2	0 8 0 8	3 3 4 4	5 7 10 0 3	0 9 2 11 4	3 3 4 4	6 8 11 1 4	0 10 4 14 8	3 3 4 4 4	7 9 0 3 5	0 11 6 1 12	3 3 4 4 4	8 10 1 4 7	0 12 8 4 0	3 3 4 4 4	9 11 2 5 8	0 13 10 7 4	3 4 4 4 4	10 0 3 6 9	0 14 12 10 8	3 4 4 4 4	11 1 4 7 10	0 15 14 13	4 4 4 4 5	0 3 6 9	0 0 0 0	16 17 18 19 20
21 22 23 24 25	4 4 4 5 5	4 7 9 0 2	8 0 8 0 8	4 4 4 5 5	5 8 10 1 4	13 6 15 8 1	4 4 5 5 5 5	7 9 0 3 5	2 12 6 0 10	4 4 5 5 5	8 11 1 4 7	7 2 13 8 3	4 5 5 5 5 5	9 0 3 6 8	12 8 4 0 12	4 5 5 5 5	11 1 4 7 10	1 14 11 8 5	5 5 5 5 5	0 3 6 9	6 4 2 0 14	5 5 5 5 6	1 4 7 10 1	11 10 9 8 7	5 5 5 6 6	3 6 9 0 3	0 0 0 0	21 22 23 24 25
26 27 28 29 30	5 5 6 6	5 7 10 0 3	0 8 0 8	5 5 6 6	6 9 11 2 4	10 3 12 5 14	5 5 6 6	8 10 1 4 6	4 14 8 2 12	5 6 6 6	9 0 3 5 8	14 9 4 15	5 6 6 6 6	11 2 5 7 10	8 4 0 12 8	6 6 6 7	1 3 6 9 0	2 15 12 9 6	6 6 6 7	2 5 8 11 2	12 10 8 6 4	6 6 7 7	4 7 10 1 4	6 5 4 3 2	6 6 7 7 7	6 9 0 3 6	0 0 0 0	26 27 28 29 30
31 32 33 34 35	6 6 7 7	5 8 10 1 3	8 0 8 0 8	6 6 7 7 7	7 10 0 3 5	7 0 9 2	6 7 7 7 7 7	9 0 2 5 7	6 0 10 4 14	6 7 7 7 7	11 2 4 7 10	5 0 11 6 1	7 7 7 8	1 4 6 9 0	4 0 12 8 4	7 7 7 8	3 6 8 11 2	3 0 13 10 7	7 7 7 8 8	5 8 10 1 4	2 0 14 12 10	7 7 8 8 8	7 10 0 3 6	1 0 15 14 13	7 8 8 8	9 0 3 6 9	0 0 0 0	31 32 33 34 35
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46 47 48 49 50	9 9 10 10	7 9 0 2 5	0 8 0 8 0	9 10 10 10	9 0 3 5 8	14 7 0 9 2	10 10 10 10		12 6 0 10 4	10 10 10 10	6	10 5 0 11 6	10 10 11 11	6 9 0 2 5	8 4 0 12 8	10 11 11 11	9 0 3 5 8	6 3 0 13	11 11 11 11	0 3 6 8	4 2 0 14 12	11 11 11 11 12	3 6 9	2 1 0 15	11 11 12 12	6 9 0 3 6	0 0 0 0 0	46 47 48 49 50



HEIGHTS OF BRICK COURSES

s										4	BR	ICKS	+	4 J	OIN	rs E	QUA	AL										ses
Courses		10′	,	1	101/4"			01/2	2"	1	03/4	"		11"		1	11/4	"	1	11/2	"	113/4"		"	12"			Courses
	Ft.	In.	16ths	Ft.	In.	16ths	Ft.	In.	16ths	Ft.	In.	16ths	Ft.	in.	16ths	Ft.	In.	16ths	Ft.	In.	16ths	Ft.	In.	16ths	Ft.	In.	16ths	
51 52 53 54 55	10 10 11 11	7 10 0 3 5	8 0 8 0 8	10 11 11 11	10 1 3 6 8	11 4 13 6 15	11 11 11 11 11	1 4 7 9	14 8 2 12 6	11 11 11 12 12	5 7 10 1 3	1 12 7 2 13	11 11 12 12 12	8 11 1 4 7	4 0 12 8 4	11 12 12 12 12	11 2 5 7 10	7 4 1 14 11	12 12 12 12 13	2 5 8 11 2	10 8 6 4 2	12 12 12 13 13	5 8 11 2 5	13 12 11 10 9	12 13 13 13 13	9 0 3 6 9	0 0 0 0	51 52 53 54 55
56 57 58 59 60	11 11 12 12 12	8 10 1 3 6	0 8 0 8 0	11 12 12 12 12	11 2 4 7 9	8 1 10 3 12	12 12 12 12 13	3 5 8 10 1	0 10 4 14 8	12 12 12 13 13	6 9 11 2 5	8 3 14 9 4	12 13 13 13	10 0 3 6 9	0 12 8 4 0	13 13 13 13	1 4 7 9 0	8 5 2 15 12	13 13 13 14 14	5 7 10 1 4	0 14 12 10 8	13 13 14 14 14	8 11 2 5 8	8 7 6 5 4	14 14 14 14 15	0 3 6 9 0	0 0 0 0	56 57 58 59 60
61 62 63 64 65	12 12 13 13	8 11 1 4 6	8 0 8 0 8	13 13 13 13	0 2 5 8 10	5 14 7 0 9	13 13 13 14 14	4 6 9 0 2	2 12 6 0 10	13 13 14 14 14	7 10 1 4 6	15 10 5 0	13 14 14 14 14	11 2 5 8 10	12 8 4 0 12	14 14 14 15 15	3 6 9 0 2	9 6 3 0 13	14 14 15 15	7 10 1 4 6	6 4 2 0 14	14 15 15 15 15	11 2 5 8 10	3 2 1 0 15	15 15 15 16 16	3 6 9 0 3	0 0 0 0	61 62 63 64 65
66 67 68 69 70	13 13 14 14 14	9 11 2 4 7	0 8 0 8 0	14 14 14 14	1 3 6 8 11	2 11 4 13 6	14 14 14 15 15	5 7 10 1 3	4 14 8 2 12	14 15 15 15	9 0 2 5 8	6 1 12 7 2	15 15 15 15 16	1 4 7 9 0	8 4 0 12 8	15 15 15 16 16	5 8 11 2 4	10 7 4 1	15 16 16 16 16	9 0 3 6 9	12 10 8 6 4	16 16 16 16	1 4 7 10 1	14 13 12 11	16 16 17 17	6 9 0 3 6	0 0 0 0	66 67 68 69 70
71 72 73 74 75	14 15 15 15 15	9 0 2 5 7	8 0 8 0 8	15 15 15 15 16	1 4 7 9 0	15 8 1 10 3	15 15 15 16 16	6 9 11 2 4	6 0 10 4 14	15 16 16 16 16	10 1 4 6 9	13 8 3 14 9	16 16 16 16 17	3 6 8 11 2	4 0 12 8 4	16 16 17 17 17	7 10 1 4 6	11 8 5 2 15	17 17 17 17 17	0 3 5 8 11	2 0 14 12 10	17 17 17 18 18	4 7 10 1 4	9 8 7 6 5	17 18 18 18 18	9 0 3 6 9	0 0 0 0	71 72 73 74 75
76 77 78 79 80	15 16 16 16	10 0 3 5 8	0 8 0 8	16 16 16 16	2 5 7 10 1	12 5 14 7 0	16 16 17 17	7 10 0 3 6	8 2 12 6 0	17 17 17 17 17	0 2 5 8 11	4 15 10 5 0	17 17 17 18 18	5 7 10 1 4	0 12 8 4 0	17 18 18 18	9 0 3 6 9	12 9 6 3 0	18 18 18 18	2 5 8 11 2	8 6 4 2 0	18 18 19 19	7 10 1 4 7	4 3 2 1 0	19 19 19 19 20	0 3 6 9	0 0 0 0	76 77 78 79 80
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91 92 93 94 95	18 19 19 19	11 2 4 7 9	8 0 8 0 8	19 19 19 20 20	5 7 10 0 3	3 12 5 14 7	19 20 20 20 20	10 1 4 6 9		20 20 20 21 21	4 7 9 0 3	9 4 15 10 5	20 21 21 21 21	10 1 3 6 9	4 0 12 8 4	21 21 21 22 22	3 6 9 0 3	15 12 9 6 3	21 22 22 22 22 22	9 0 3 6 9	10 8 6 4 2	22 22 22 23 23	3 6 9 0 3	5 4 3 2 1	22 23 23 23 23 23	9 0 3 6 9	0 0 0 0	91 92 93 94 95
96 97 98 99	20 20 20 20 20	0 2 5 7 10	0 8 0 8 0	20 20 20 21 21	6 8 11 1 4	0 9 2 11 4	21 21 21 21 21		14	21 21 21 22 22	6 8 11 2 4	0 11 6 1	22 22 22 22 22 22	0 2 5 8 11	0 12 8 4 0	22 22 22 23 23	6 8 11 2 5	0 13 10 7 4	23 23 23 23 23	5	0 14 12 10 8	23 23 23 24 24	11	0 15 14 13	24 24 24 24 25	0 3 6 9	0 0 0 0	96 97 98 99 100



LINTELS OF INDIANA LIMESTONE

Safe Uniformly Distributed Loads in Pounds per Inch in Width and Spans of Lintels

	HEIGHT OF LINTELS IN FEET AND INCHES														
IN FEET	0-2"	0-4"	0-6"	0-8"	0-10" 1'-0"		1'-2"	1'-4"	1'-6"	1'-8"	1'-8" 1'-10"		2'-2"		
		WEIGHT OF LINTELS IN POUNDS PER INCH WIDTH AND EACH FOOT OF SPAN													
	2	4	6	8	10	12	14	16	18	20	22	24	26		
			SAFE SU	JPERIMPO	SED LOA	DS IN PO	UNDS FO	R SPANS	OF LINTI	ELS PER 1	" WIDTH				
1	46	188	426	760	1190										
2	20	88	204	368	580	840	1148	1504	1908						
3	10	52	126	232	370	540	742	976	1242	1540	1870	2232	2626		
	4	32	84	160	260	384	532	704	900	1120	1364	1632	1924		
		18	56	114	190	286	400	534	688	860	1052	1262	1492		
		8	36	80	140	216	308	416	540	680	836	1008	1196		
•			20	54	101	163	238	327	429	546	676	819	977		
			6	32	70	120	182	256	342	440	550	672	806		
)				13	43	84	135	197	270	353	447	552	667		
)					20	53	95	147	209	280	361	451	551	1	
2							28	64	108	160	220	288	364	1	
									26	63	107	158	215	1	
												48	91	1	

For any Given Width of Lintel, Multiply Loads Given, by Width of Lintel in Inches

	HEIGHT OF LINTELS IN FEET AND INCHES														
IN FEET	2'-4" 2'-6" 2'-8" 2'-10" 3'-0" 3'-2" 3'-4" 3'-6" 3'-8" 3'-10" 4'-0" 4'-6"														
	WEIGHT OF LINTELS IN POUNDS PER INCH WIDTH AND EACH FOOT OF SPAN														
	28	30	32	34	36	38	40	42	44	46	48	54	60		
		1	SAFE SU	JPERIMPO:	SED LOAD	S IN PO	UNDS FO	R SPANS	OF LINTE	LS PER 1	" WIDTH				
4	2240	2580	2944	3332	3744										
5	1742	2010	2298	2604	2930	3276	3640	4024	4426						
5	1400	1620	1856	2108	2376	2660	2960	3276	3608	3956	4320	5508			
7	1148	1333	1531	1744	1970	2209	2463	2730	3011	3305	3614	4621	5751		
3	952	1110	1280	1462	1656	1862	2080	2310	2552	2806	3072	3942	4920		
,	793	930	1077	1235	1404	1583	1773	1974	2185	2407	2640	3402	4260		
)	661	780	909	1047	1195	1353	1520	1697	1883	2079	2285	2959	3720		
2	448	540	640	748	864	988	1120	1260	1408	1564	1728	2268	2880		
E .	280	351	430	515	607	706	811	924	1043	1170	1303	1743	2246		
5	140	195	256	323	396	475	560	651	748	851	960	1323	1740		
3	19	60	107	159	216	279	347	420	499	583	672	972	1320		
)				14	58	106	160	218	282	350	422	670	960	2	

Average Weight of Indiana Limestone, 144 pounds per cubic foot. Weights of Lintels have been deducted. Factor of safety, 8 to 10. Safe uniformly distributed superimposed loads are for each inch width of lintels.



* * * * *

For your convenience, we will gladly furnish on request separate individual copies of any pages in this book, including any of the Detail Plates.

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A NOTE ON THE DETAIL PLATES

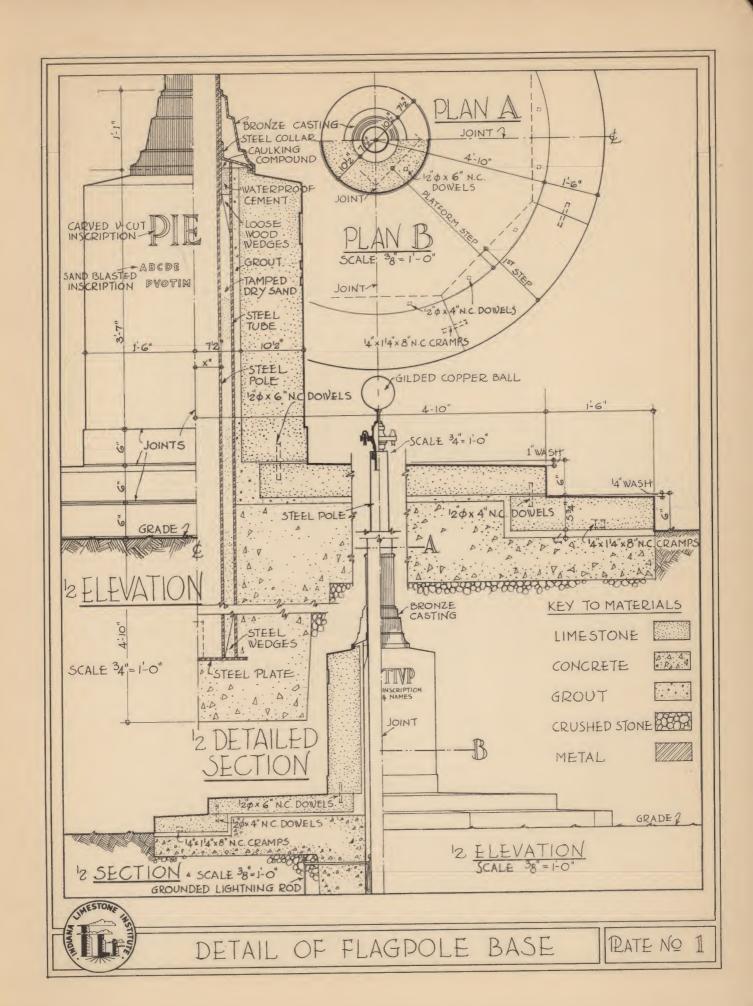
It is impossible, of course, to portray in this group of detail plates all of the possible conditions surrounding the use of Indiana Limestone and its relation to other building products, but the following are offered in a spirit of helpfulness and where they are found to be insufficient, you are invited to consult our Technical Division.



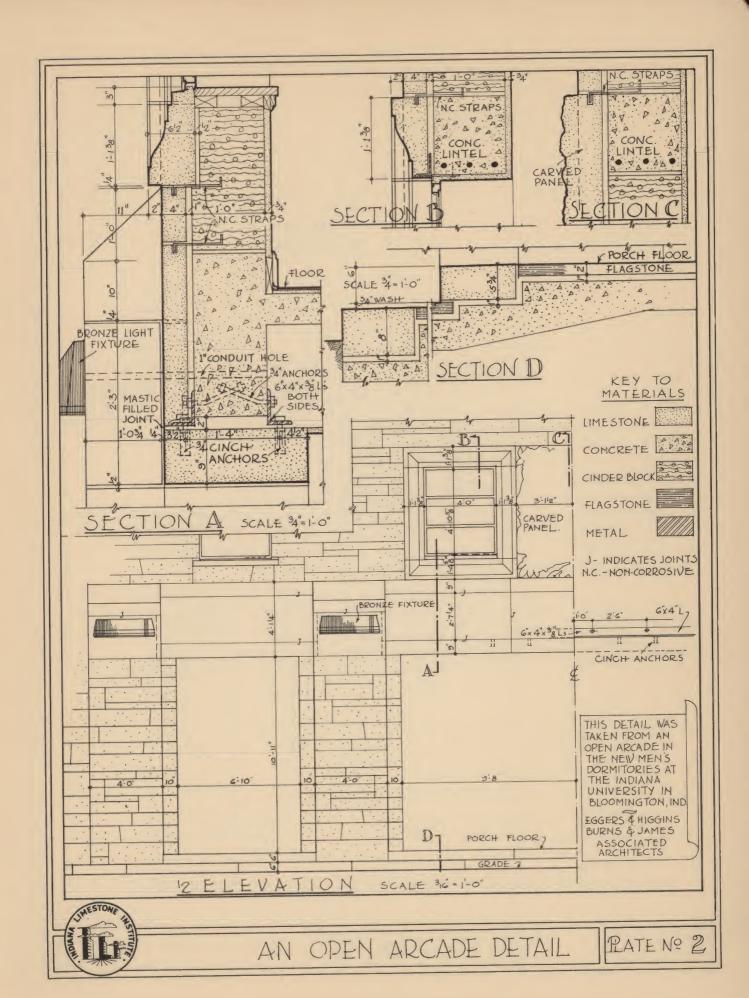
INDEXOF DETAIL PLATES

Flagpole Base .								1
Open Arcade .								2
Entrance Doorway								3
Gothic Rose Windo	w							4
Simple Entrance								5
Store Front		,						6
Liturgical Altar							٠	7
Splayed Soffit Sup	poi	rts						8
Stone Soffit Hangir	ng							9
Column and Soffit								10
Bank Front								11
Detail of Steps								12
Guttered Cornice								13
Projecting Courses	an	d C	Corr	nice	S			14
Gable Coping .								15
Copings								16
Typical Sills								17
Anchoring for Ston Existing Building				of				18
Wall Facings, 3" ar	nd	4"						19
Anchoring Stone Fo	aci	ng						20
Stone Facing, 2"								21
Stone Facing, 1¾"								22
Types of Random A	Ash	lar						23
Miscellaneous And	ho	's a	nd	Sur	ono	rts		24

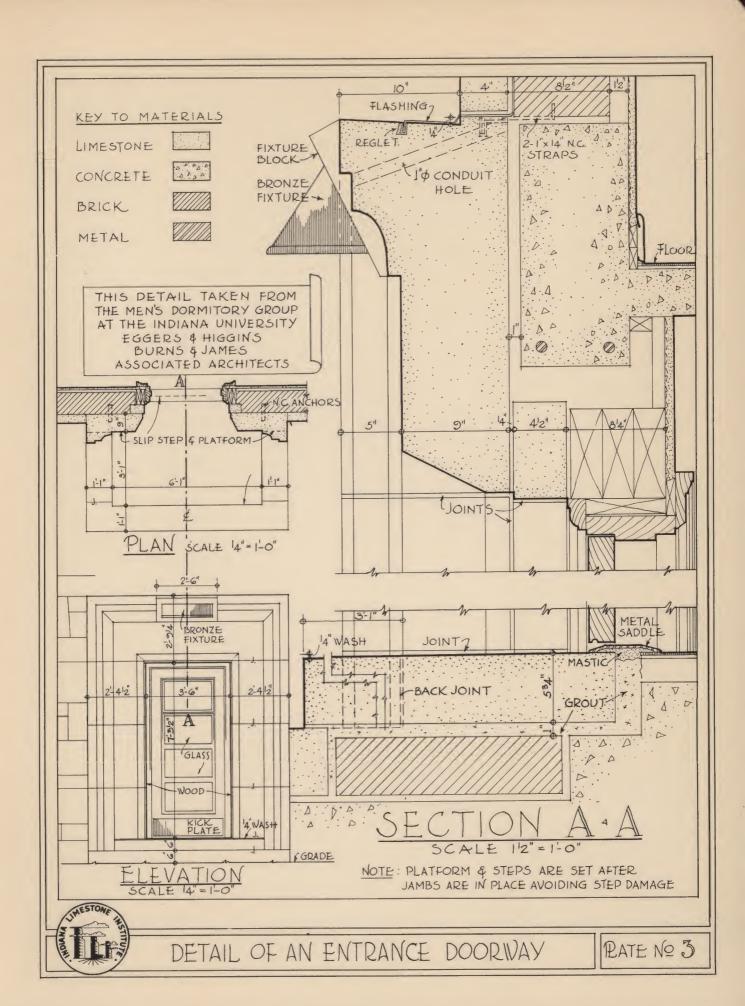




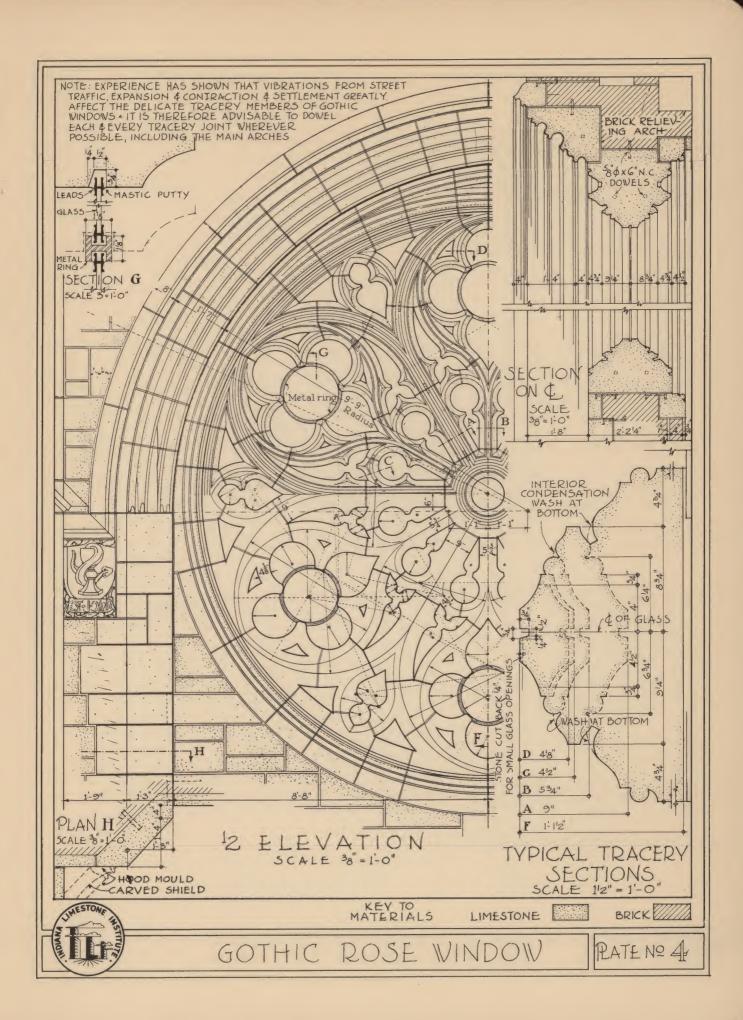




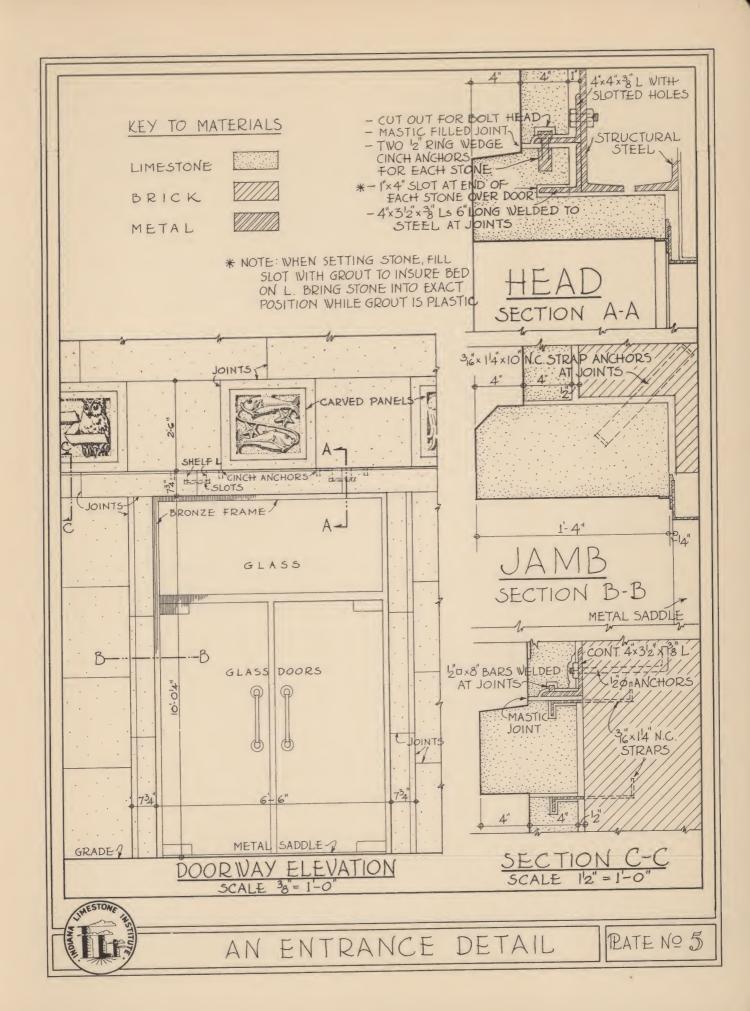




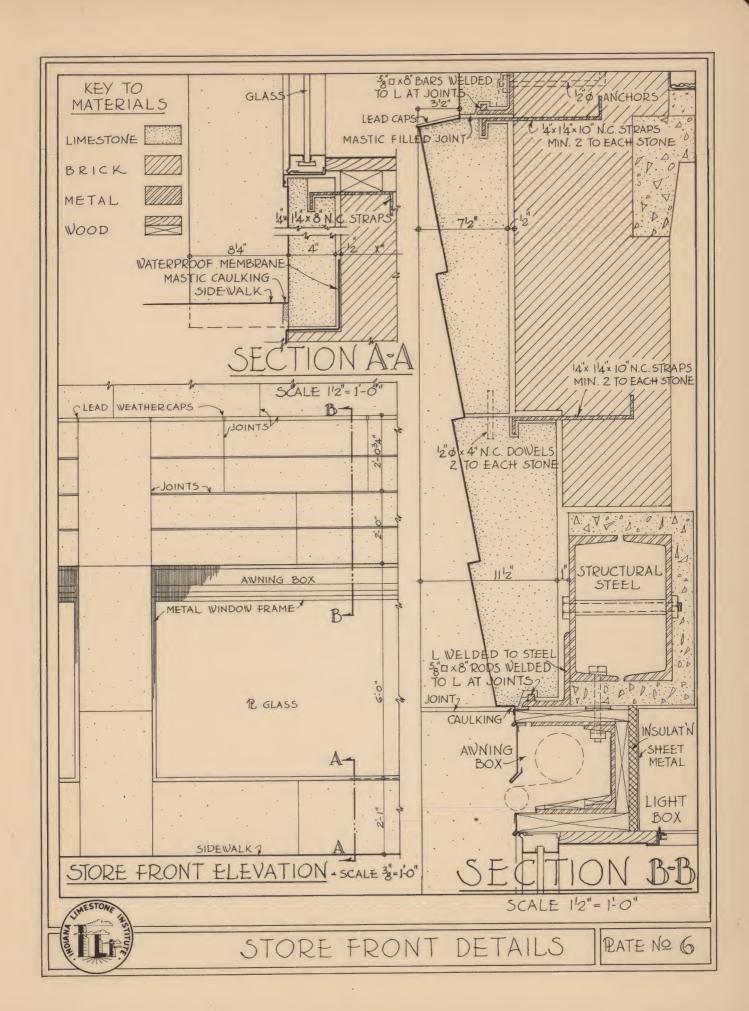




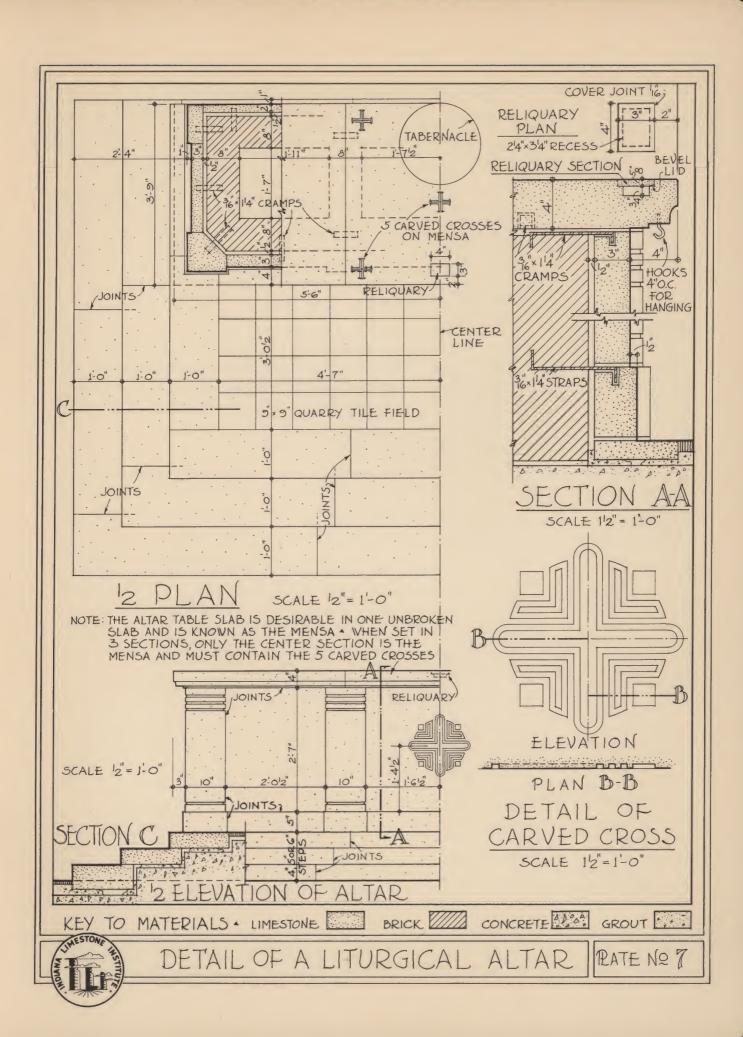




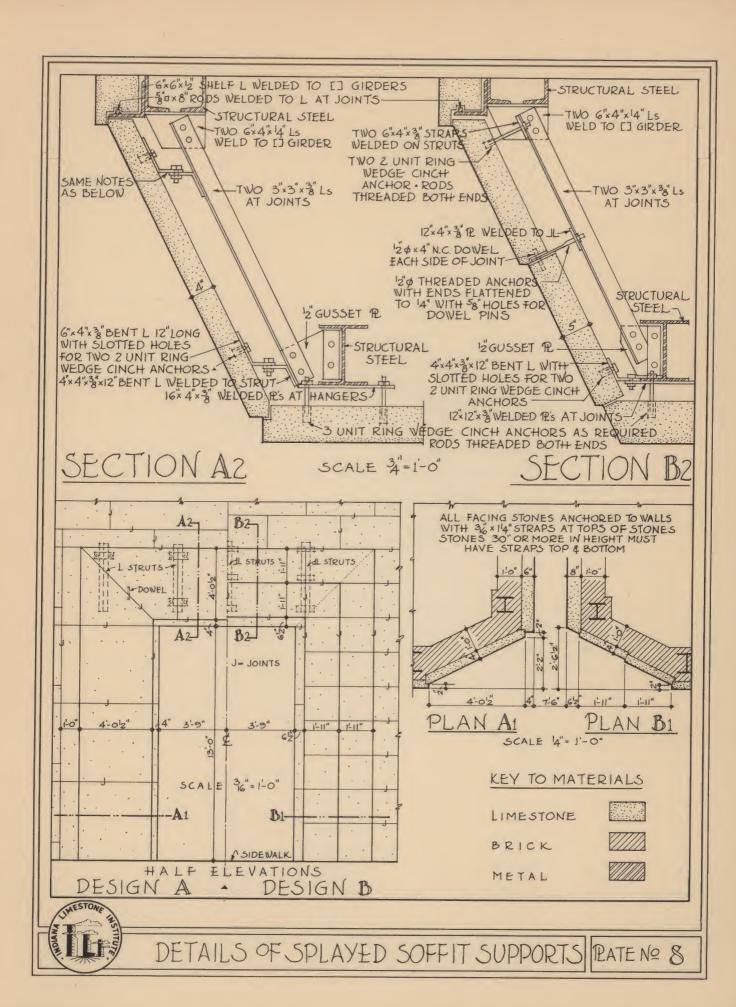




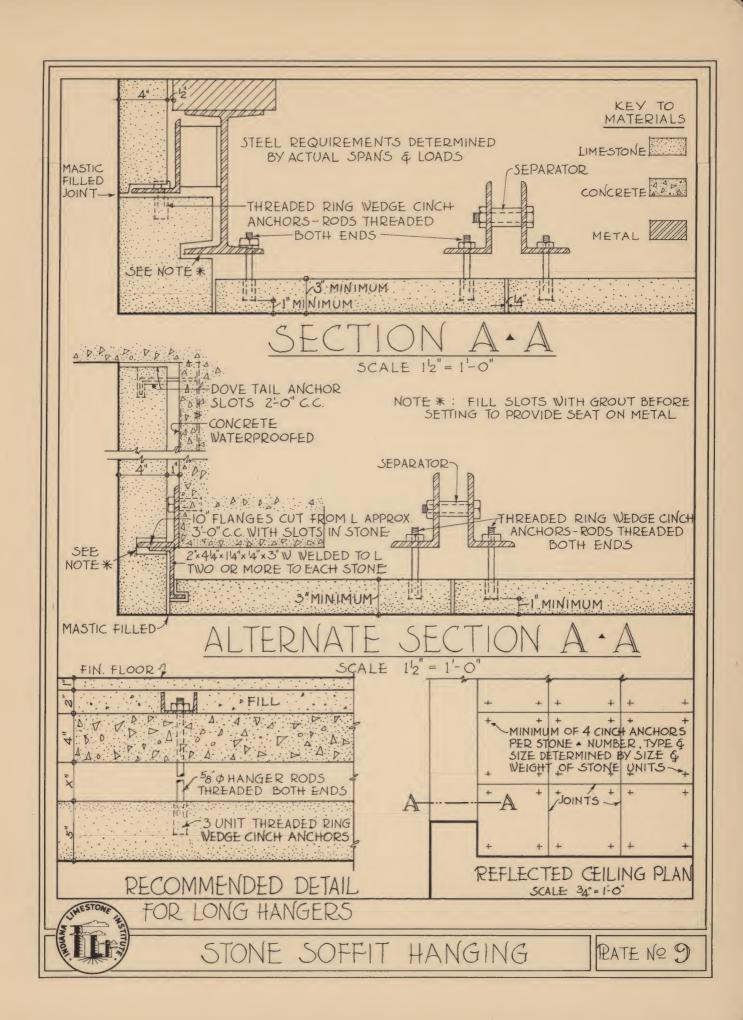




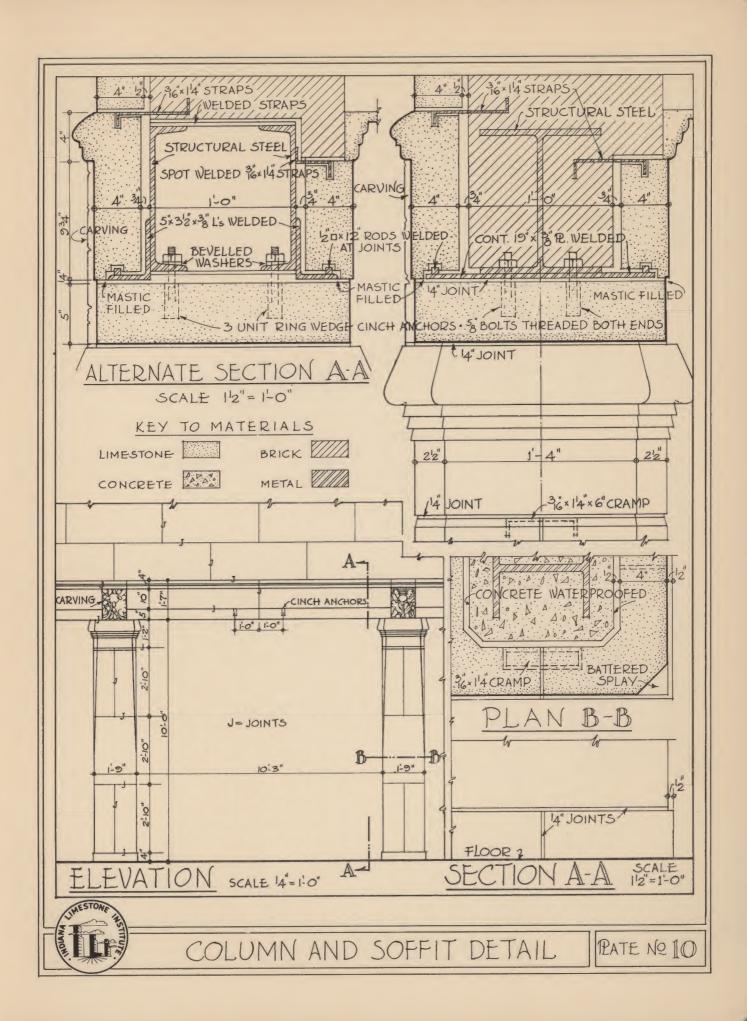




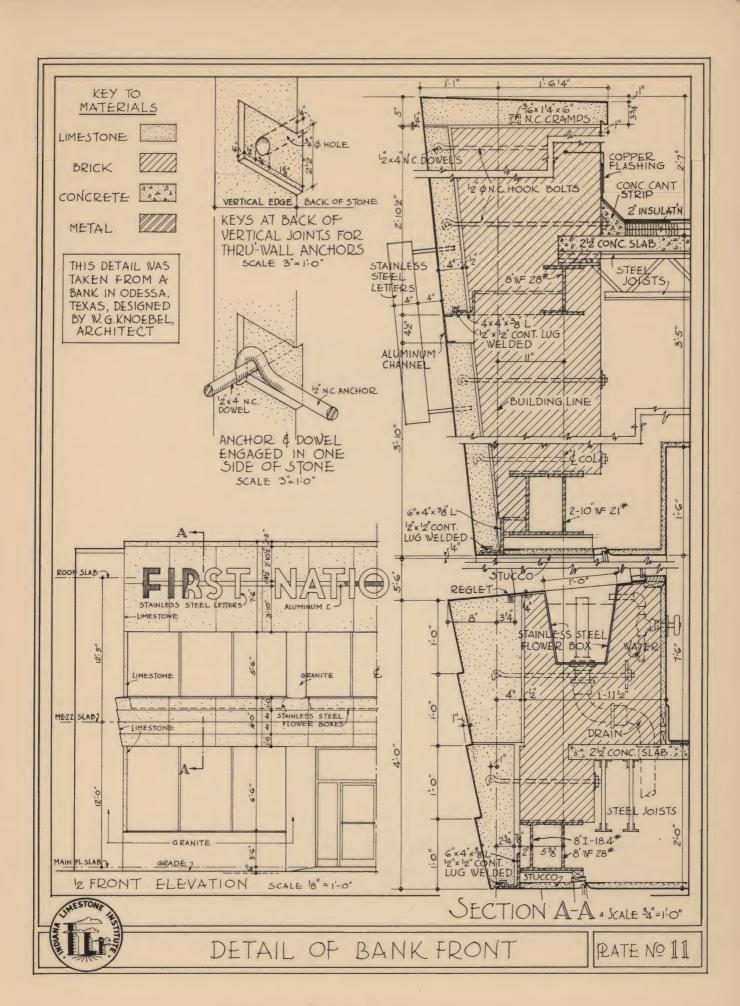


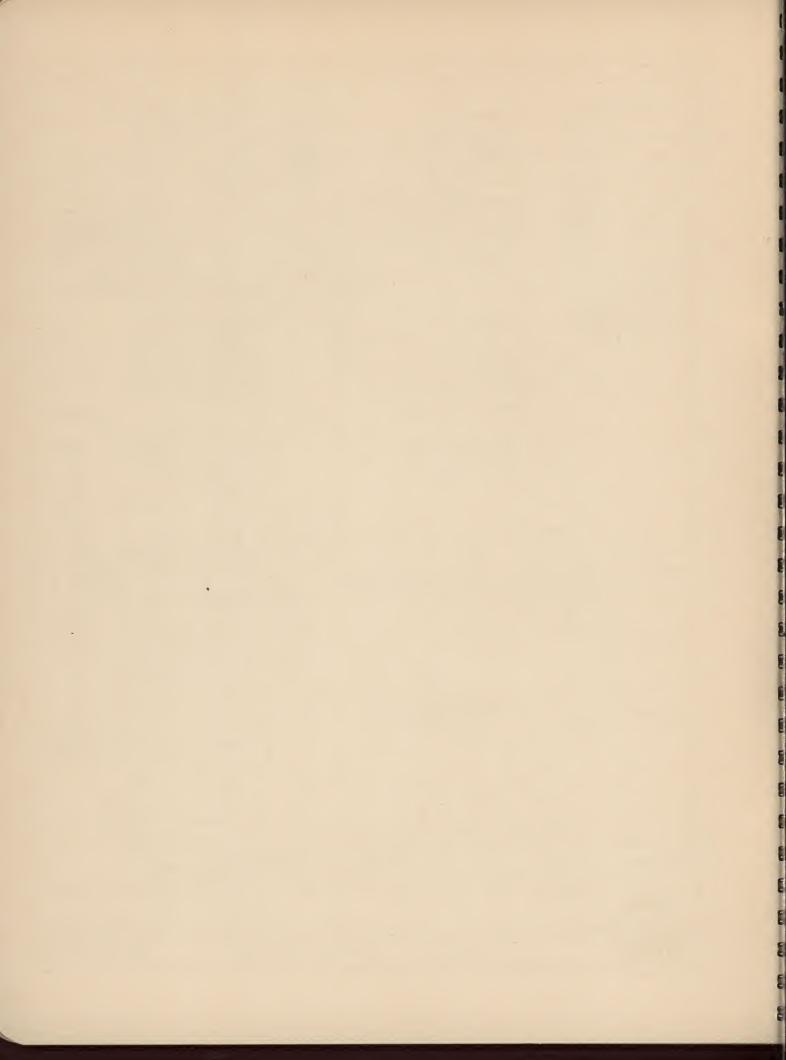


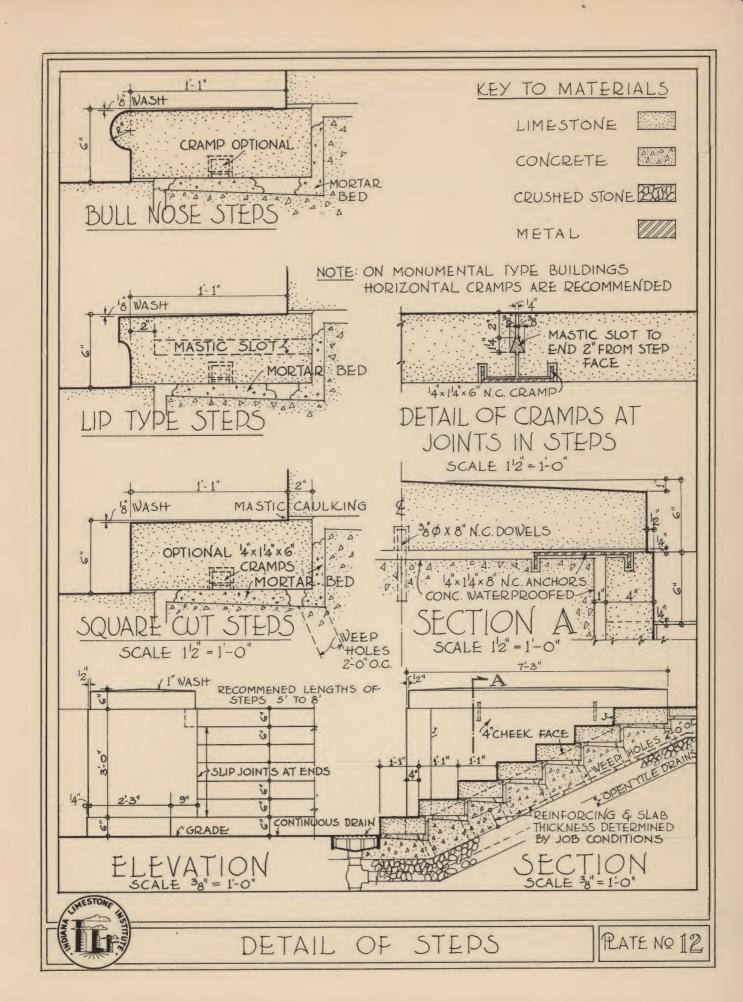




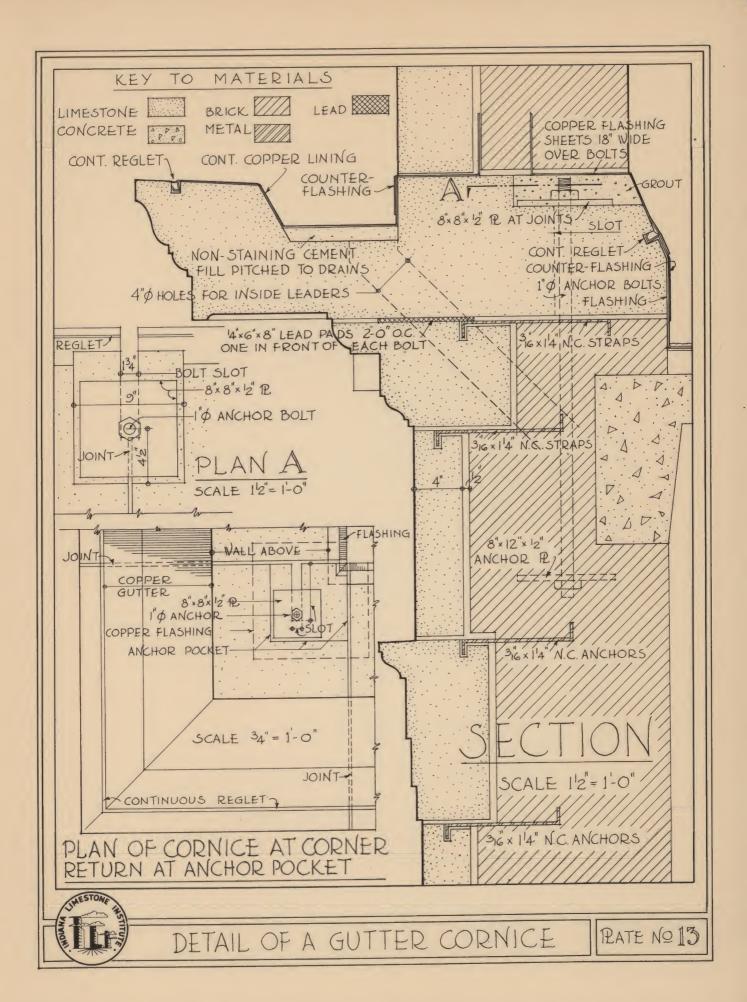




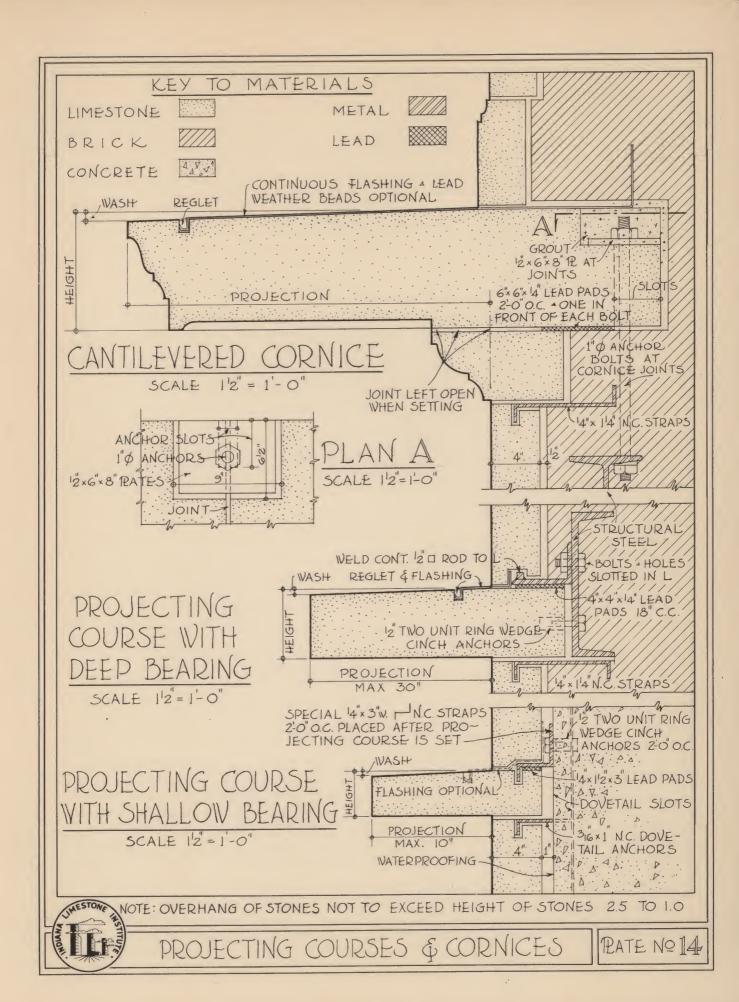




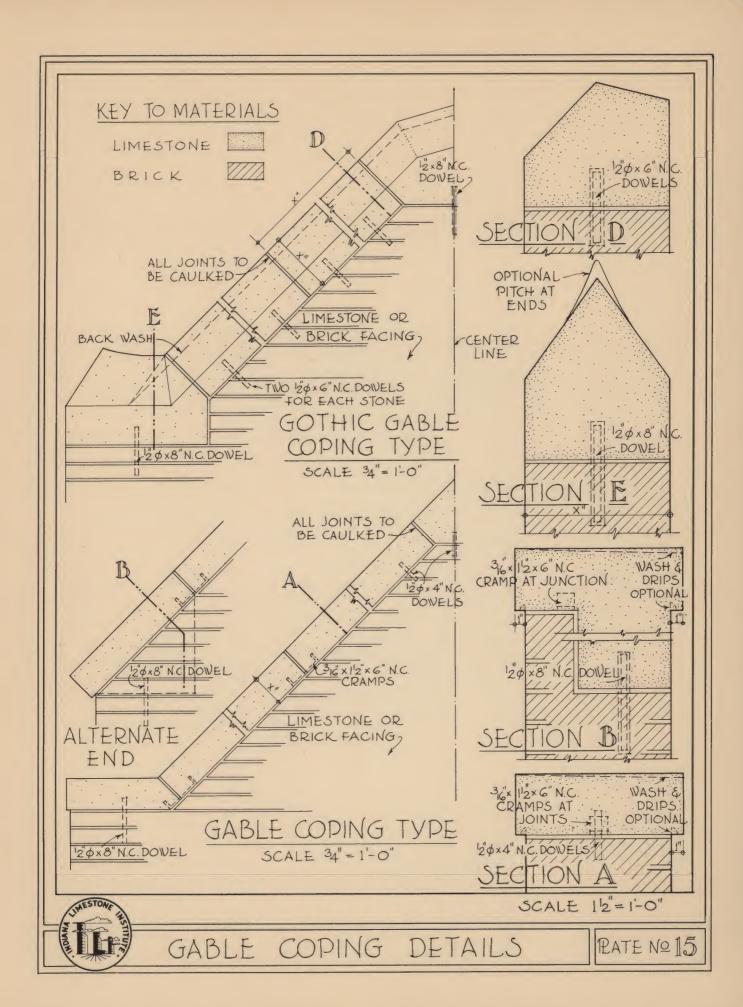


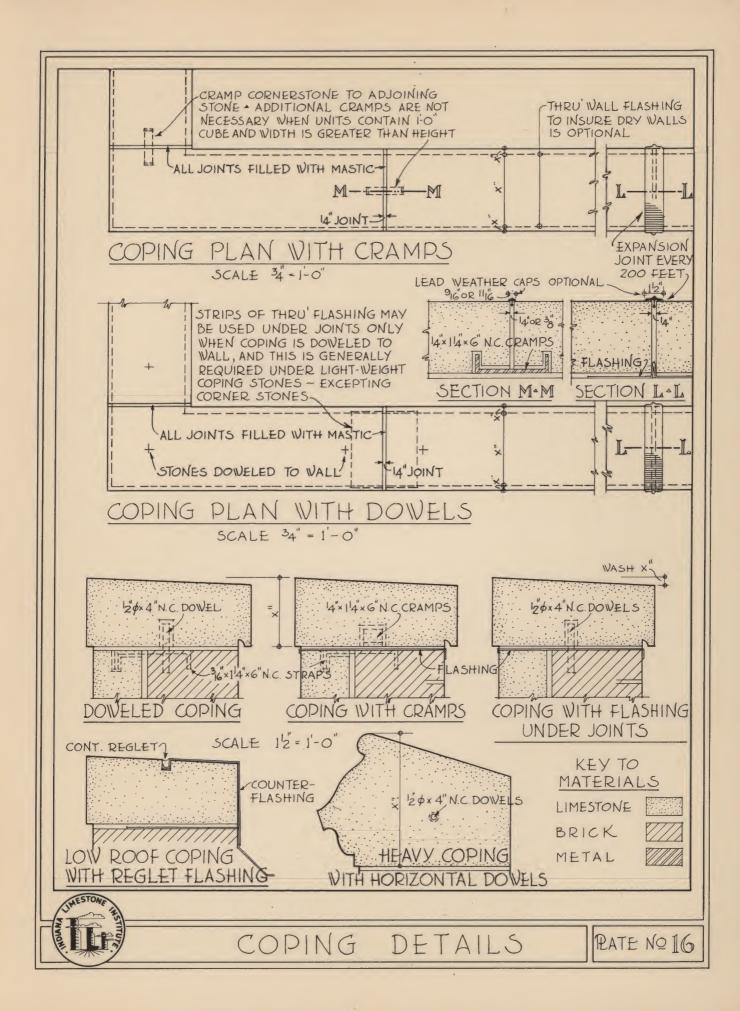




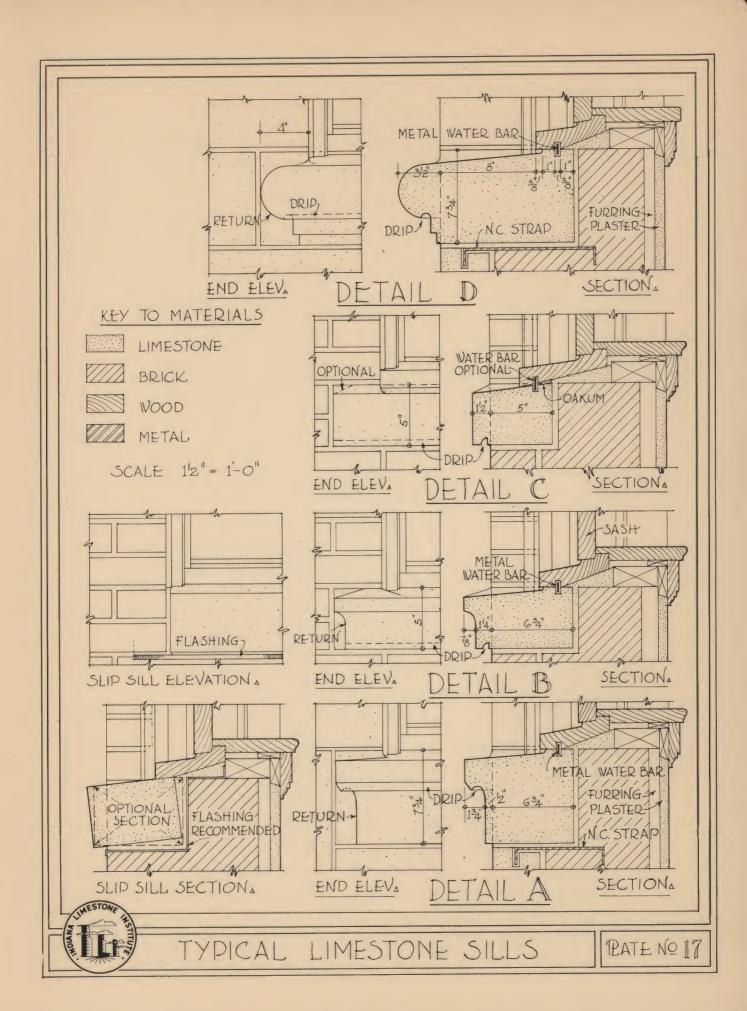




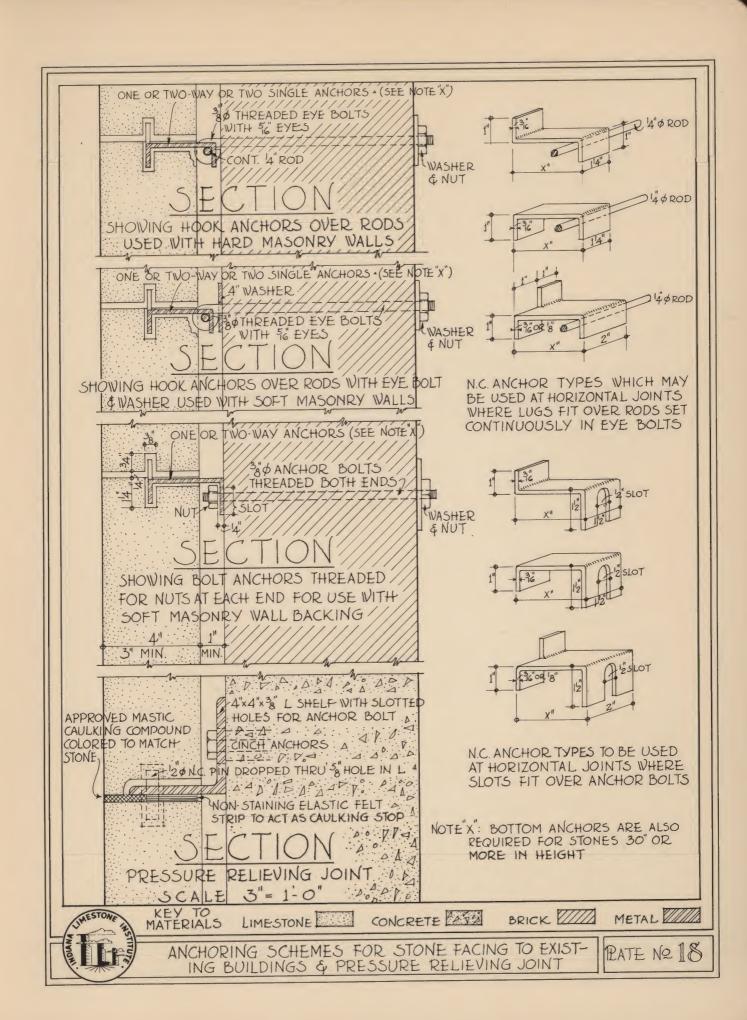


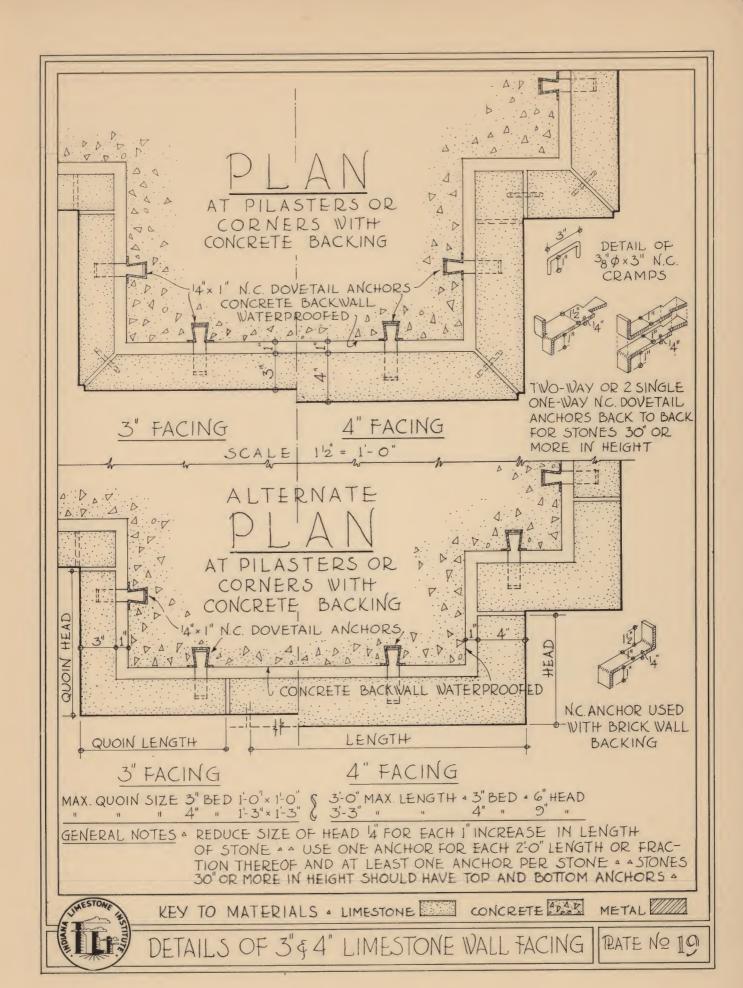




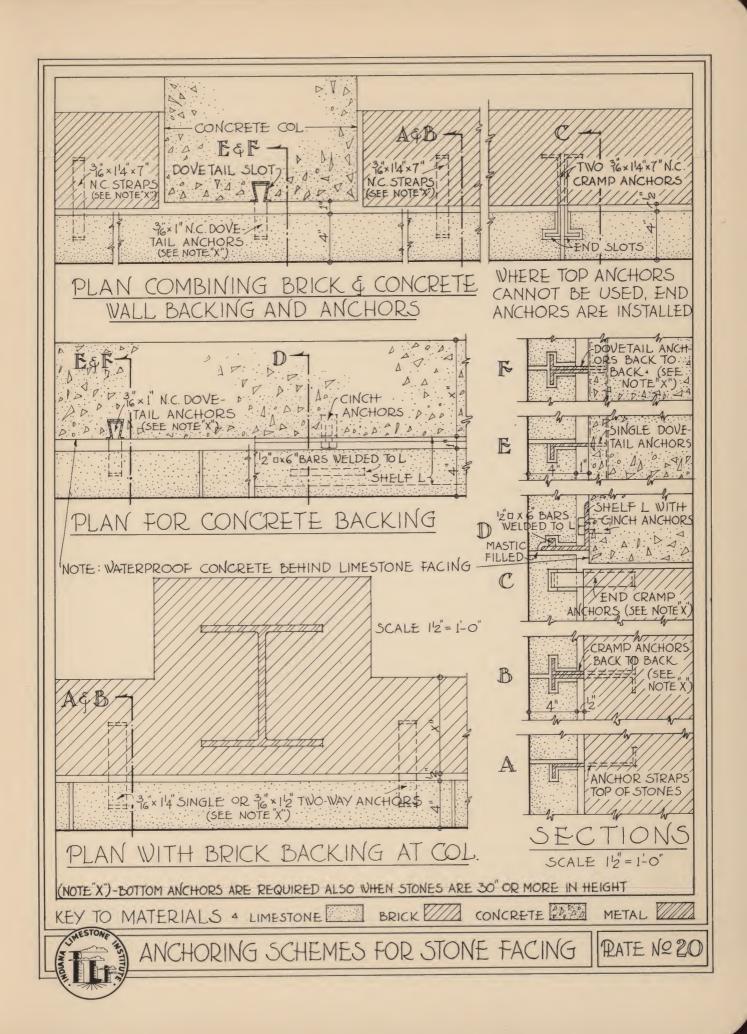


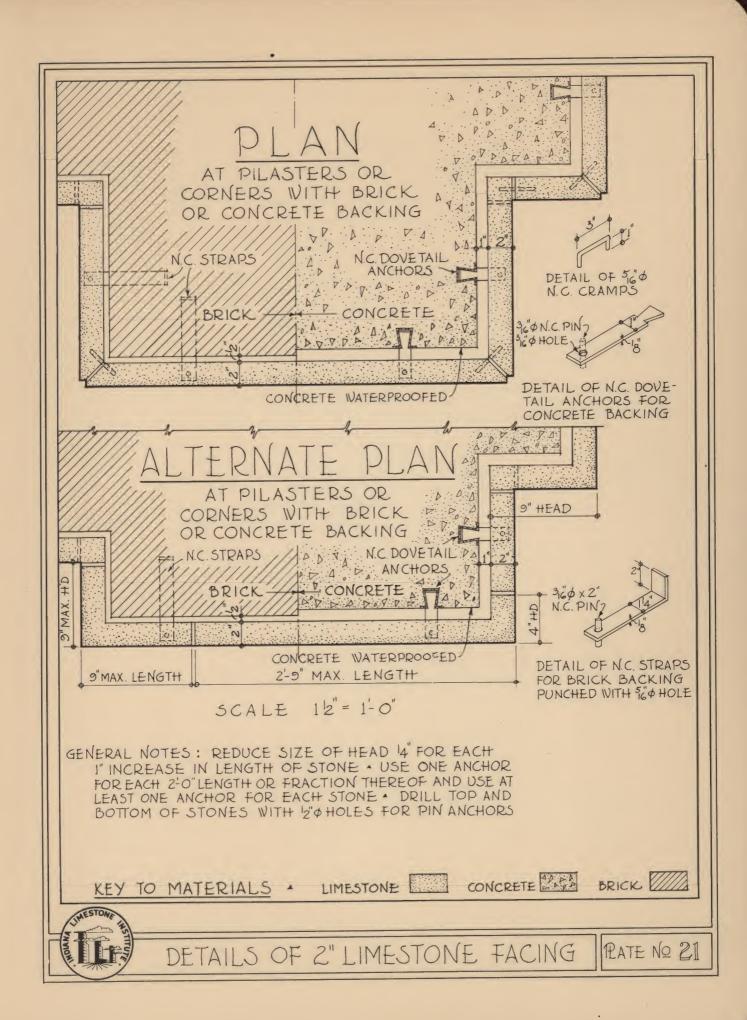




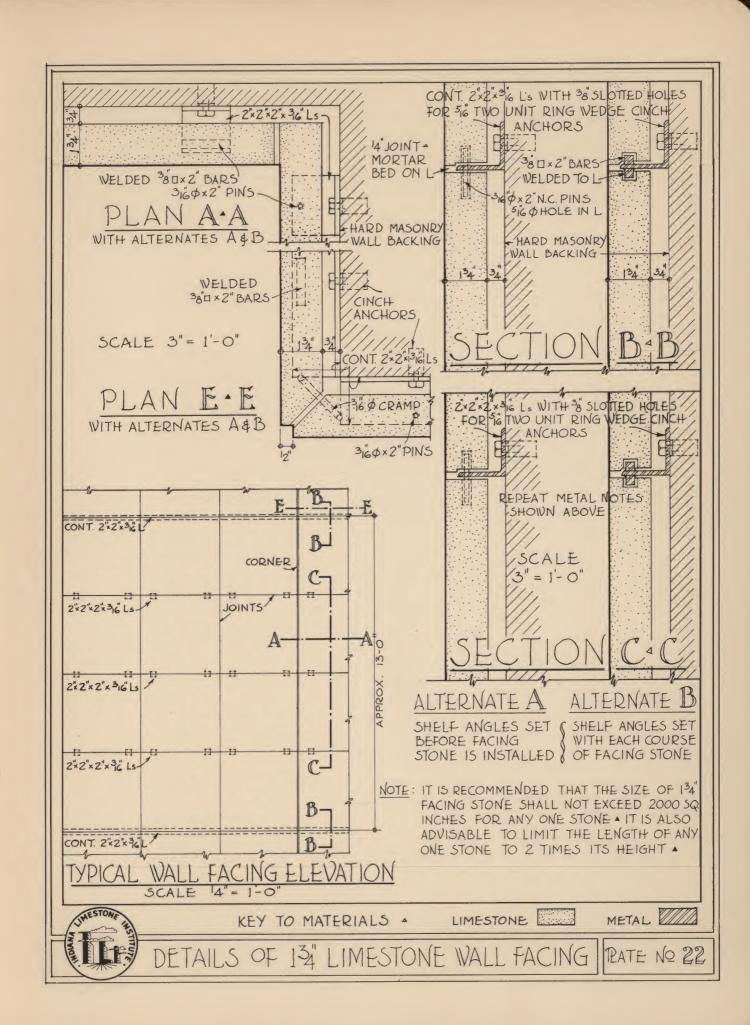




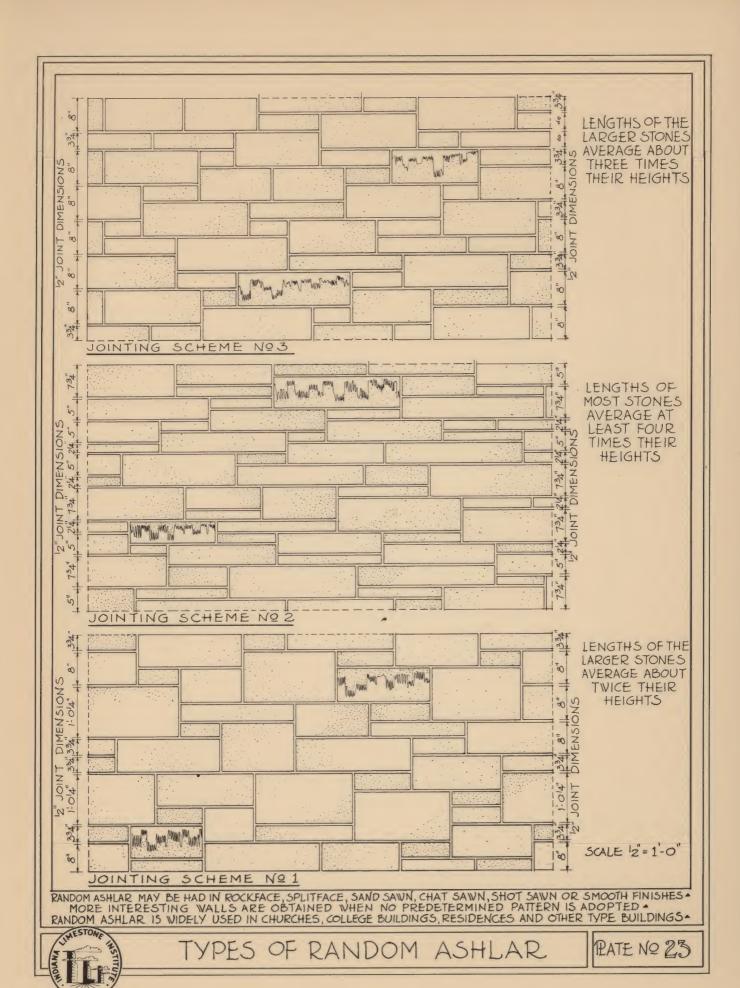




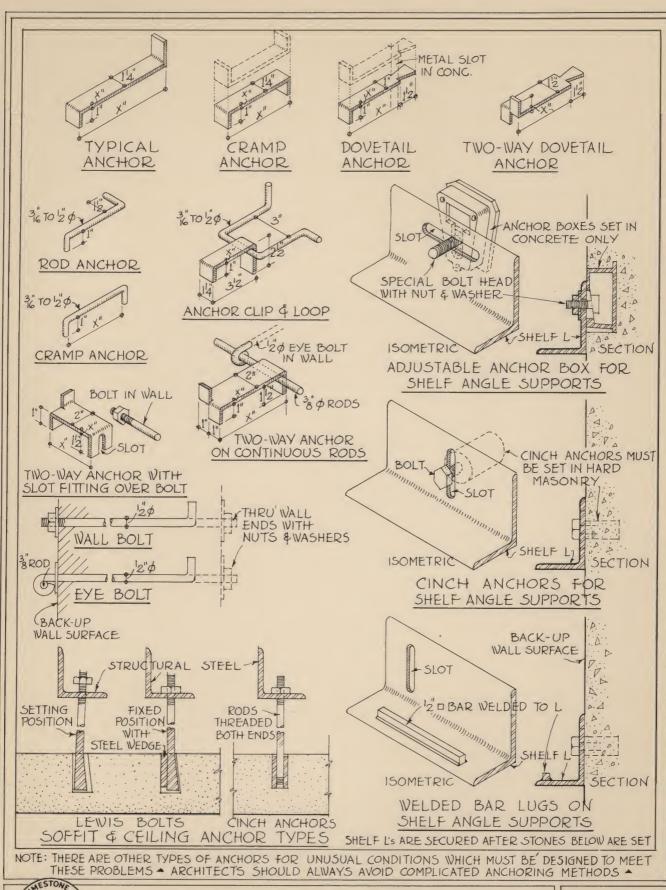












SUPPORTS & ANCHORS

PLATE NO 24





